#### INVOICE CHECK LIST

### MKULTRA Subproject

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1.4 on any attachments were incurred for official pur-Listed hereon an 78.88 poses of a confidential nature, that payment credit therefor has not been received, and the 78.88 76.88 CREDIT AMOUNT GOSSOB UNITE E/T39/HB and correct. 71-80 AMOUNT MONEY ORDER I certify that the expenditures 7. OUTSTANDING ADVANCES END OF PERIOD (Affach Ilating) 8. CASH ON HAND END OF PERIOD OR BALANCE DUE ADVANCEE Expense - See attached DE817 this accounting is true DESCRIPTION certification CHECK TOTAL ACCOUNTED FOR TOTALS 67.70 OBJECT CLASS .68.70 DOE TOTAL EXPENSES SIGNATURE C.A.S.H . .... SPACE BELOW FOR EXCLUSIVE USE OF OFFICE OF FINANCE ACCOUNT SYMBOL November 1962 SIDNEY COTTLIES, DC/IND SIGNATURE OF CERTIFYING OFFICER SIGNATURE OF APPROVING OFFICER 6. REFUNDED HEREWITH 55.66 DATE CERTIFIED FOR PAYMENT OR CREDIT MKULTRA, Sub-project 138 PERIOD OF ACCOUNTING VOUCHER 11.0.0 Mich LESGER ACCT. NO. APPROVED 51.54 REVIEWED BY 88 SEUOSE C CODE September 1961 50 42.47 DATE DATE UDOW 3 111111 CODE ROM DESCRIPTION 2125-1390-3902 34.39 SIGNATURE OF AUTHORIZING OFFICER 760.0 Acet out 2. OUTSTANDING ADVANCES BEGINNING OF PERIOD SHIP. DOC. NO. TOTAL TO ACCOUNT FOR I CERTIFY FUNDS ARE AVAILABLE #25-770185 DESCRIPTION-ALL OTHER ACCOUNTS 13-33 ACCOUNTING BY INDIVIDUAL 2000 CHARGE FAN ACCOUNT NO. Follow Instructions on Reverse 1. CASH ON HAND BEGINNING OF PERIOD FOR ADVANCE ADVANCE ACCOUNTS 13-27 3. RECEIPTS THIS PERIOD: DATE DESCRIPTION . SLIG.REF. NO. 658 RECEIPT FORM 4-65 WOTE: 6-881

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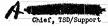
3 NOV 1964

MEMORANDUM FOR: Chief, Covert Claims Branch

SHRECT

1 MKULTRA Subproject 138

Attached is a certification from Chief, Biological Branch, for MKULTRA Subproject 138 Invoice 2 and should be recorded in account 760.



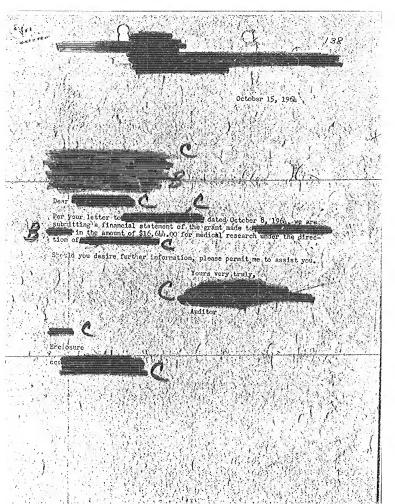
# CERTIFICATION

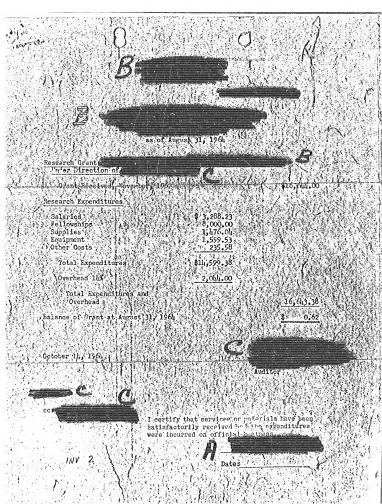
I certify that the outstanding belance of MCLERA Sub-project 138, Invoice 1 has been expended for the purchase of equipment. This office is in receipt of a letter from the grantee which states that the equipment will be paid for with these funds. I have personally contacted the grantee and he states the equipment was delivered and paid for and that the equipment was used in the research authorized by Sub-project 138 Invoice 2. This research was completed in August 1964. All funds for Invoice 2 have been accounted for.

The letter referred to above is on file in the project file in TED, where it will be made available for review by the specially designated certifying officer.

A - C/TSD/BB

SIDNEY COTTLIES DC/TSD







REVISED

#### ate 5 September 1963

	siological Indicators (VIb)
Biophysical Project Title Measurements	(formerly Va)  Them Classification None
Project Crypto MKULTRA	Crypto Classification None
Branch Project No. R-46	Project Engineer
Contractor	C
Contract No. MKULTRA 138	Task No. N. A.
Type of Contract MKULTRA	Date Initiated September 1961
Cost \$17,500.00	Completion Date September 1962
Purpose: The goal of this proje	

Status:

A number of materials are being considered for application to the skin of individuals. Suitable fibers and their properties are presently being investigated from the point of view of the above application.

Requirement: Internally generated in TSD.



138-6

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Status: A number of materials are being considered for application to the skin of individuals. Suitable fibers and their properties are presently being investigated from the point of view of the above application.

REQUIREMENT SOURCE: Internally generated in TSD





Jenuary 21, 1963



Attention:

C

#### Gentlemen

Enclosed please find a report on 'Grant for Research of Phenomena for Bio-Medical Instrumentation'.

You will note that there is \$1,858.00 for "Encumbrance Outstanding for Equipment". This equipment has not been delivered. As soon as delivery is made and payment is leased, we will be in a position to refund you the unexpended belence of this grent.

Very truly yours, Original signed by

Eac.

Attention:

C

MININE C.

I have examined and approved the submitted expenditures.

Chief

TSD/Biological Branch



## Grant for Research of Phenomena for Bio-Medical Instrumentation

Checks received as follows:

December, 1961 February, 1962 May, 1962 \$ 8,949.00 287 4,474.50 28

Total Grant Received

\$17,898.00

# Expenditures and Other Chargest

Salaries and Wages Fellowships Materials and Supplies \$ 2,821.97 6,000.00 1,298,02

Other Costs
Equipment
Encumbrance Outstanding for Equipment
Total Expenditures and Other Charges

1,858.00

Overhead 14% of Costs

2,188.31

Total

17,819.12

Free Balance as of January 11, 2963

\$ 78.88

January 21, 1963

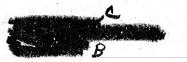


A have examined and approved the submittee expenditures.

TSD/Biological Branch

Parties ...

October 19, 1962



Dear Sir:

This note is to inform you that favorable action has recently been taken by studies at the request of the continuation of the continuation of the studies at the request approved a grant in the amount of \$16,644,00 for this purpose.

In connection with this matter, very kindly furnishedus with various documents relating to budgetary and administrative requirements of the grantee and this is the general policy of surning the property of the property of the property of the property of the "Statement of Policy" of the "Statement of Statement, budget categories and the like. Furthermore, we specifically agree that the statement of \$6,000.00 should be in the form of a fellowship grant for research and study in the pursuit of the Doctor of Philosophy Degree.

I am forwarding our check in the amount of \$16,644,00 to the with the understanding that this amount will complete the present phase of program.

With best wishes for success in this important area of biomedical research we remain

Sincerely yours,



C.



6 September 1962

MEMORANDUM FOR: THE RECORD

SUBJECT

: Project MKULTRA, Subproject 138

is an accomplished innovator in many fields of instrumentation and has made some fundamental contributions to various kinds of measuring devices. He will work under the direction of

- 2. As is indicated in the attached proposal and interim report, work will begin with an attempt to evaluate the possibility ofaltering the properties of the various interfaces (space-human tissue, etc.) involved in biological systems of interest in ways that will facilitate remote polygraph type measurement by the use of various forms of incident radiant energy as is being studied in other current research projects. Information made available in this study will be of interest in connection with the problem of body antennas, personnel tagging, polygraphy and other areas. It should be emphasized that this particular approach, as far as is known, has never been explored. For this reason it is not presently possible to go into great detail as to the exact experimental lines to be followed.
- and cut-out for this project. As indicated in the attached proposal, the cost of the program for one year will be \$16,644.00. To this must be added \$665.76 which represents the service charge due the cut-out. The total cost of the

project for one year will therefore not exceed \$17,309.76. Charges should be made against Allotment No. 3125-1390-3902.

- 4. Title to the equipment purchased shall remain with
  - 5. Documentation and accounting for travel expenses under this project which are reimbursable by ill conform to the accepted practices of that Institution.
  - 6. This project will operate on an unwitting basis. There are no cleared individuals beyond

A Chief
TSD/Biological Branch

# D C

#### PROPOSAL

The investigation will be of an exploratory nature, examining recognized, but not well understood, properties or characteristics of materials and phenomena which could perform useful functions in miniature bio-medical sensors. The project is expected at least to begin with the study of extremely fine fibers or micro-filaments. These filaments afford many properties of conceivable applicability to the sensing of dynamic parameters of biological systems at the cellular and organic levels.

Some filaments are known to possess very great unit strength compared to the same materials in greater bulk. Due to their fine dimension, very great lengths of the filaments can occupy small space and have small weight. Their fine dimension should enable filaments to faithfully transmit mechanical stress or pressure pulses of even high frequency with a minimum of distortion. Micro-filaments can penetrate tissue without surgery and with a minimum of biological damage.

Some fibers are electrical conductors, while others are insulators. Some transmit light, while others are opaque. The surface of filaments can be coated with conductive, semiconductive, or insulating films, or with films which can radiate or respond to heat, light, pressure, etc.

These are but a few of the properties which characterize micro-filaments, properties which are apparent or can be surmised. Compared to study of characteristics of materials of larger dimension, relatively little effort has been expended on examining recognized properties or looking for new properties or useful interrelations between properties of materials in very small dimension.

The object of this investigation will be to examine such properties of materials individually and in combination in the context of bio-medical applicability.

The investigation will be performed primarily in the laboratories of

Anne involvatory facilities include modern oscillographic and other electronic instruments as well as adequate machine
shop facilities for construction and modification of experimental
apparatus.

The instruments and facilities of adjacent scientific laboratories will also be available as needed. There are available instruments for a wide range of mechanical, electrical, and optical measurements including electron microscopy. Vapor coating at high vacuum may also be performed on the campus. For analysis and computation, the

B s also noted for its work in the areas of medical and life sciences. The staff of departments in these areas can offer consultation and stimulation in areas of mutual interest.

BUDGET

#### I. PERSONNEL

	Principal Investigator Other	\$ 9,200.00	
II.	SUPPLIES AND SERVICES	4,500.00	
III.	TRAVEL AND COMMUNICATION	600.00	
IV.	INCIDENTAL EXPENSES	300.00	0000
٧.	OVERHEAD @ 14%	2,044.00	
	TOT	\$16,644.00	

## INTERIM REPORT

Project:

The initial months under

Grant have been devoted to preparation for and the beginning of experimental work relating to microscopic quartz filaments and their utilization in minute bio-medical sensors.

During the first months of the grant period, a literature search was conducted to establish the location of source material historically or currently related to fibers of quartz and other materials and to minature sensors which have found application in clinical medicine and research physiology. Selected references from the extensive bibliography were selected for detailed study. The primary emphasis was on the available technology of fibers and microcapillaries, microscopy, high vacuum, and vacuum deposition techniques. A technique for producing fine filaments of glass was mastered using simple equipment which was available. These glass filaments were used to anticipate the specific needs for fabricating, handling, and observing instruments so that tentative requirements for these necessary research tools could be established.

<sup>\*</sup>The Interim Report is prepared for submission with the application for continuation of the research grant. The detailed terminal report for the work of the year 1961-1962 will be submitted in October, 1962.

As the grant funds became available for expenditure at years end, if was possible to order components for the yacuum deposition system which will perform a central role in the experimental study. The assembly of the components into a deposition system is substantially complete. High-temperature oxy-hydrogen equipment has allowed the drawing of fine filaments of quartz to sub-micron size. Preliminary techniques for forming and handling the extremely fine fibers have been utilized to obtain the filamentary materials of the type which will be used in the study. Experience gained in handling and viewing these fibers with microscopic equipment obtained on temporary loan has established the specific requirements for this instrument.

While work with the actual materials of the investigation has only.

recently begun, it is anticipated that vacuum deposition of materials with useful properties onto the microscopic quartz fibers will be attempted by mid-summer.

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No. 540

Cost Account 3/25-1390-3902

Object Class

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MEMORANDUM FOR: C/T5D/FASS

SUBJECT.

MKULTRA, Subproject No. 138
Authorization #2

Under the authority granted in the memoranium dated 13 April 1953, from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subprofect 138 has been approved and 417,309.76 of the over-all respect ALULTRA funcy have been excluded to cover subprofect's expendes and should be charged to cost context 3125-1300-3908

Concur

Asst. Chief, TSD for

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APPROVED FOR COLD ATION OF FUNDS.

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I hereby acknowledge receipt of the following:

Treasurer's Check No., 194471, dated October II, 1962, drawn on payable to in the amount of

Treasurer's Check No. Y400157, dated October II, 1962, drawn on payable to in the amount of







November 28, 1962

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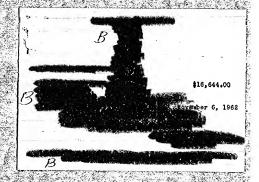
On behalf of I write to thank for the check in the amount of \$16,644.00 representing a grant for research under the direction of We are indeed pleased to receive this generous support for the program of biomedical research being carried on by appreciate very much the interest of B

Enclosed is an official receipt for this check.

Sincerely yours,







REQUEST FOR ADVANCE											
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Date 6 September 1962

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SUBJECT

MKULTRA, Subproject No. 138
Authorization #2

Under the authority granted in the memorandum dated 13 April 1953,

from the DCI to the DD/A, and the extension of this authority in subsequent

chemoranda, Subproject 138 to bas been approved and \$17,309.76 of the over-all Project MKULTER Ands have been obligated to the state of the over-all Project MKULTER Ands have been obligated to the state of the over-all Project MKULTER Ands have been obligated to the state of the over-all Project MKULTER And and have been obligated to the state of the over-all Project MKULTER AND AND ADDRESS AND ADDR

subproject's expenses and should be charged to cost center 3125-1390-3902

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APPROVED FOR OBLIGATION, OF FUNDS:



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	CHUICH TO ALLO MENT NO.
	AUTHORIZING OFFICER
Research Director	
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Date:	30 3 L
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12 October 1961

NEMORARDUM PORT CHIEF, PINANCE DIVISION

VIA TED/Bulget Officer

BUBJECT | MEULTRA, Subproject No. 138, Invoice #1 Allotment #2125-1390-3902

1. Invoice Me. I in the amount of \$18,618.00 covering the above subproject is attached. It is requested that payment be made as follows:

Cashior's chock in the accust of 17,898.00 psysble

Cashier's check in the amount of 4716.00 payable to

2. The check should be forwarded to Chief, TBD/Research Breach, through TED/Budget Officer, no later than 19 October 1961.

> Chief TSD/Research Branch

Attached: Invoice & Certifications

Distribution:

1 - TED/PASS

2 - TSD/RB

ONIGATION ENGLISHED STATE ANALYSIS CONGRESS ASSESSMENT STATE STATE

AUTHORIZING OFFICER

For Services		418,614.00	
72			
CERTI	FICATIONS		
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hat services are being accomplis	hed in accordan	ce with mutual	agree-
ments, that a detailed agends of t n TSD/RB, that this bill is just a	he payments and ind correct and	that payment t	hereca
as not yet been made.			
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	Chief, TSD/Re	search brance	
Date:			
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12 October 1961

MEMORANDAM PORT CHIEF, PINANCE DIVISION

VIA

TED/Budget Officer

BUBLECT

MKNITRA, Subproject No. 138, Invoice #1 Allotment #2125-1390-3902

1. Invoice No. 1 in the amount of \$18,618.00 covering the above subproject is attached. It is requested that payment be made as follows:

Cashier's check in the amount of 217,898.00 payable to

Cashier's check in the ascumt of \$716.00 yeysble to drawn on

R. the check should be forwarded to Chief, TED/Research Branch, through TED/Budget Officer, no later than 19 October 1961.

Chief
TSD/Research Branch

Attached: Invoice & Certifications

Distribution: Orig & 2 - Addressee CHECK# 113 07 IN THE AMOUNT OF 5/7 895 10

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CHECK# 273110
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CERTIFIED FOR PAYMENT OR CREDIT

SIGNATURE OF CERTIFYING OFFICER

DATE

REVIEWED

DATE

10-59 606 use PREVIOUS EDITIONS.

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Gentlement

We are pleased to be able to transmit to you the following funds:

Treasurer's Check No. 272109 drawn on \$11, 898.00 dated November 2, 1961.

Treasurer's Check No. 272110 drawn on. for \$716,00 dated November 2, 1961.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization

Yours truly,

Attachments (2)

11 October 1961

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TENTION : Pi

Finance Division 1

SUBJECT

Authorization 1 : MKU/RWA, Subproject

Under the authority granted in the memorandum dated 13 April 1973
from the DCI to the DD/A, and the extension of this authority in eph188 and the DCI to the DD/A, and the extension of this authority in eph188 and the province of the province of the over-all Project MARGIA funds have been obligated to cover the
2125-1390-39
subproject's expenses and should be charged to cost centor.

Chief
TSD/Research Brench

APPROVED FOR CELICATION OF FUNDS:

Research Director

Date:

Distribution:

Orig. & 2 - Addressee

11 October 1961

MEMORANDUM FOR: THE RECORD

SUBJECT

: Project MKULTRA, Subproject 138

on

is an accomplished innovator in many fields of

instrumentation and has made some fundamental contributions to various
kinds of measuring devices. He will work under the direction of

in this project.

The purpose of this subproject is to support the work of

- 2. As is indicated in the attached proposal, work will begin with an attempt to evaluate the possibility of altering the properties of the various interfaces (space-human tissue, etc.) involved in biological systems of interest in vays that will facilitate remote measurement by the use of various forms of incident radiant energy.

  Information made available in this study will be of interest in connection with the problem of body antennas, personnel tagging, polygraphy and other areas. It should be emphasized that this particular approach, as far as is known, has never been explored.

  For this reason it is not presently possible to go into great detail as to the exact experimental lines to be followed.
- 3. The shall function as cover and cut-out for this project. As indicated in the attached proposal, the cost of the program for one year vill be \$17,898.00. To this must be added \$716.00 which represents the service charge due the cut-out. The total cost of the project for one year will therefore not exceed \$18,614.00. Charges should be made against Allotment No. 2125-1390-3902.

- It is not anticipated that any permanent equipment will be required in this project.
- 5. Documentation and accounting for travel expenses under this project which are reimbursable by the accepted practices of
- 6. This project will operate on an unwitting basis. There are no cleared individuals beyond

A Office TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS

Research Director

Attachment: Proposal & Budget

Distribution: Original Only

## BUDGET

PERSONNEL	\$11,500.00
Principal Investigator Technical Assistant Machinist	
SUPPLIES AND MATERIALS	3,000.00
TRAVEL	600.00
COMMUNICATION AND SHIPPING	600.00
OVERHEAD at I4%	2,198.00
TOTAL	\$17,898.00